

Application No.: 10/829,311
Response to Final Office Action of 6/12/2007

2

Docket No.: 249212026300

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AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0017] with the following amended paragraph [0017]:

[0017] FIG. 1 shows in perspective view a tape drive system 100 in accordance with embodiments of the present invention. The tape drive system 100 comprises a stationary tape drive body 102, a moving receiver 104 for receiving and translating a storage media device (shown as a tape cartridge 110), and a take-up reel ~~[[108]]~~ 107. The receiver 104 comprises a top plate 112 and two opposing side walls 114a-114b. During operation, a robotic picker mechanism or a human operator inserts the tape cartridge 110 into the receiver 104 and applies a force onto the back of the cartridge 110, thereby driving the cartridge 110 in the forward direction (shown as the positive x-direction in FIG. 1) deeper into the receiver 104.

Please replace paragraph [0028] with the following amended paragraph [0028]:

[0028] As the tape cartridge 106 is first inserted into the receiver 104 in FIG. 4A, the distance D1, is the initial distance between the trailing edge 235 of the media flag 230 and the trailing edge of 335 of the receiver flag 330. Similar to FIG. 4A, D1 is shown in FIGS. 5A, 6A, and 7A. When the cartridge 110a is being inserted into the receiver 104, a forward-driving force is applied to the cartridge 110a, typically by a robotic picker mechanism or by a human operator. Once the cartridge 110a contacts the brake release pin 220, continued forward-driving force upon the cartridge 110a causes the receiver 104 to move with the cartridge 110a in the forward direction. This forward movement of the receiver 104 causes the receiver flag 330 to move forward such that a leading edge of the receiver flag 330 triggers the receiver flag sensor 340. The receiver flag sensor 340, in turn, transmits a signal to a controller 350 in the tape drive system 100 indicating that the receiver flag 330 has been detected. Normally, this signal would indicate to the tape drive system 100 that a cartridge has been fully inserted into the receiver 104 and that a cartridge load process should be initiated. However, in this case, because the cartridge 110a was prevented from being fully inserted into the receiver 104, the media flag sensor 310 has not transmitted a signal to the

sf-2351915

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3

Docket No.: 249212026300

controller 350 indicating that the media flag 230 has been detected. Therefore, the controller 350 can conclude that the cartridge 110a which has been inserted into the receiver 104 is of an incompatible type and will proceed with initiating an error sequence. This error sequence can include, for example, sending a signal to a library controller or robotic picker controller indicating that the cartridge 110a is improper and should be removed. In another embodiment, the controller 350 may cause an error message to be displayed to a human operator using, for example, an indicator light or a message on a computer terminal display. This error message can instruct the operator to remove the cartridge 110a from the receiver 104. Thus, the signals from the media flag sensor 310 and the receiver flag sensor 340 can be used in conjunction to enable the tape drive system 100 to determine when an improper cartridge 110a has been inserted and to take the appropriate steps to remedy the situation by stopping the cartridge loading process and having the cartridge 110a removed.

sf-2351915